

Focus Area 16: Maternal, Infant, and Child Health

Objective 16-1g targets a reduction in infant death rates due to congenital heart and vascular defects to 0.23 per 1,000 live births.

Based on data extracted from the Birth Cohort Perinatal Files, 202 California infants born in 2003 died from congenital heart and vascular defects during their first year of life at a rate of 0.46 per 1,000 live births, compared with 246 deaths in 2000 at a rate of 0.52 per 1,000 live births (Figure 16-1g, Table 16-1g). Although declining, California's infant death rate due to heart and vascular defects remained higher than the target established in HP2010 and this objective has not yet been achieved.

Data by race-ethnicity of the mother show that Asians experienced the highest cohort infant death rates due to heart and vascular defects (0.41 per 1,000 live births in 2003), followed by Hispanics/Latinos (0.40 per 1,000 live births in 2003) and Whites (0.27 per 1,000 live births). The HP2010 target of 0.23 per 1,000 has not yet been achieved for any of these racial and ethnic populations. Death rates for American Indians/Alaska Natives, Native Hawaiian/Other Pacific Islanders, and the Multirace populations were unreliable due to the small numbers of events and are not reported here.

Examined by age of mother, the highest cohort infant death rates due to heart and vascular defects occurred for 15-19 year-olds (0.43 per 1,000 live births in 2003), those aged 25-29 years (0.40 per 1,000 live births in 2003), and those aged 35 years and over (0.39 per 1,000 live births in 2003). The HP2010 target of 0.23 per 1,000 is not being achieved for any maternal age group as of 2003.

The cohort infant death rate for male infants was 0.40 per 1,000 live births in 2003, and for female infants was 0.35 per 1,000 live births in 2003. The HP2010 objective is not being achieved for either male or female infants as of 2003.

For more information on birth defects in California, visit the Genetic Diseases Branch Web site at:

<http://www.dhs.ca.gov/org/pcfh/GDB/gdbindex.htm>

and the Birth Defects Monitoring Program Web site at:

<http://www.cbdmp.org/>

For more information on Healthy People 2010 objective 16-1g, please visit:

http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm#_Toc494699661
and

<http://www.healthypeople.gov/Document/html/tracking/od16.htm#fetaldeaths>

Figure 16-1g
Infant Death Rates Due to Congenital Heart and Vascular Defects
By Race-Ethnicity and Age of Mother, Sex of Child
California, 2000-2003

Healthy People 2010 objective = 0.23

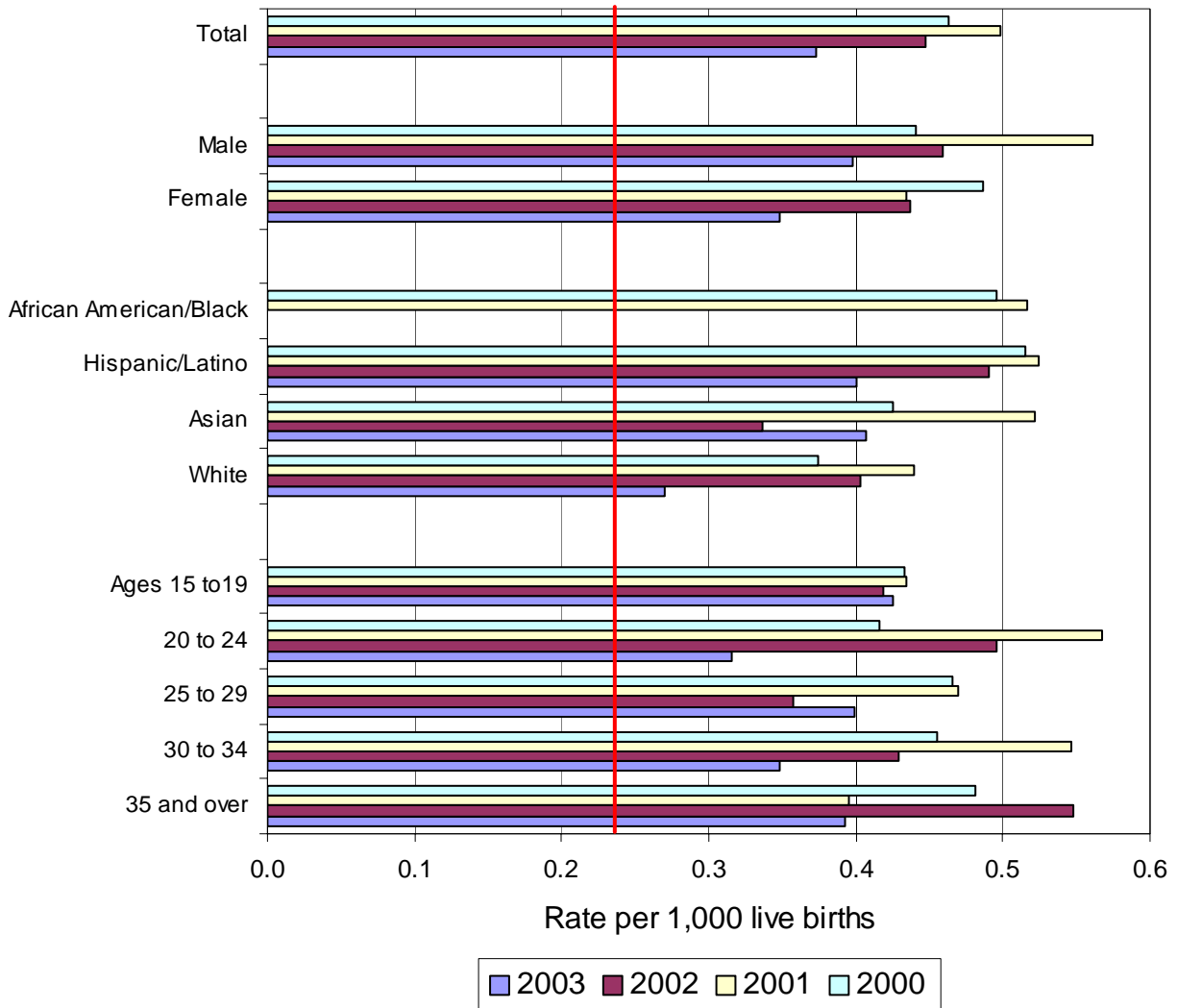


Table 16-1g: Infant Death Rates Due To Congenital Heart and Vascular Defects, California 2000-2003

HP2010 Objective 16-1g	2000					2001				
	Deaths	Births	Rate ¹	95% C.I.	95% C.I.	Deaths	Births	Rate ¹	95% C.I.	95% C.I.
Healthy People 2010 Target	0.23					0.23				
Statewide Total	246	531,313	0.46	0.41	0.52	263	527,452	0.50	0.44	0.56
Race-Ethnicity of Mother										
African American/Black	16	32,290	0.50	0.25	0.74	16	30,971	0.52	0.26	0.77
American Indian/Alaska Native	1	1,975	DSU	-----	-----	0	1,986	0.00	-----	-----
Asian	25	58,872	0.42	0.26	0.59	30	57,444	0.52	0.34	0.71
Hawaiian/Pacific Islander	1	2,376	DSU	-----	-----	2	2,356	DSU	-----	-----
Hispanic/Latino	133	257,963	0.52	0.43	0.60	137	261,022	0.52	0.44	0.61
White	63	168,219	0.37	0.28	0.47	72	163,787	0.44	0.34	0.54
Multirace	4	6,254	DSU	-----	-----	3	6,388	DSU	-----	-----
Other/Unknown	3	3,364	DSU	-----	-----	3	3,498	DSU	-----	-----
Maternal Age Group										
Under 15	2	895	DSU	-----	-----	0	810	0.00	-----	-----
15 - 19	24	55,375	0.43	0.26	0.61	23	52,972	0.43	0.26	0.61
20 - 24	51	122,581	0.42	0.30	0.53	70	123,231	0.57	0.43	0.70
25 - 29	65	139,604	0.47	0.35	0.58	64	136,448	0.47	0.35	0.58
30 - 34	58	127,509	0.45	0.34	0.57	70	127,951	0.55	0.42	0.68
35 and over	41	85,251	0.48	0.33	0.63	34	85,948	0.40	0.26	0.53
Sex of Child										
Female	126	259,218	0.49	0.40	0.57	112	258,171	0.43	0.35	0.51
Male	120	272,089	0.44	0.36	0.52	151	269,268	0.56	0.47	0.65

HP2010 Objective 16-1g	2002					2003				
	Deaths	Births	Rate ¹	95% C.I.	95% C.I.	Deaths	Births	Rate ¹	95% C.I.	95% C.I.
Healthy People 2010 Target	0.23					0.23				
Statewide Total	237	529,334	0.45	0.39	0.50	202	540,821	0.37	0.32	0.43
Race-Ethnicity of Mother										
African American/Black	15	29,809	DSU	-----	-----	17	29,197	DSU	-----	-----
American Indian/Alaska Native	1	1,966	DSU	-----	-----	0	2,004	0.00	-----	-----
Asian	20	59,376	0.34	0.19	0.48	25	61,511	0.41	0.25	0.57
Hawaiian/Pacific Islander	1	2,411	DSU	-----	-----	1	2,409	DSU	-----	-----
Hispanic/Latino	129	263,056	0.49	0.41	0.58	108	269,641	0.40	0.32	0.48
White	65	161,486	0.40	0.30	0.50	44	162,902	0.27	0.19	0.35
Multirace	1	6,812	DSU	-----	-----	2	7,110	DSU	-----	-----
Other/Unknown	5	4,418	DSU	-----	-----	5	6,047	DSU	-----	-----
Maternal Age Group										
Under 15	0	743	0.00	-----	-----	0	709	0.00	-----	-----
15 - 19	21	50,209	0.42	0.24	0.60	21	49,320	0.43	0.24	0.61
20 - 24	61	123,066	0.50	0.37	0.62	39	123,787	0.32	0.22	0.41
25 - 29	49	137,242	0.36	0.26	0.46	56	140,533	0.40	0.29	0.50
30 - 34	56	130,377	0.43	0.32	0.54	47	134,788	0.35	0.25	0.45
35 and over	48	87,611	0.55	0.39	0.70	36	91,555	0.39	0.26	0.52
Sex of Child										
Female	113	258,896	0.44	0.36	0.52	92	263,877	0.35	0.28	0.42
Male	124	270,429	0.46	0.38	0.54	110	276,932	0.40	0.32	0.47

SOURCE: California Department of Health Services, Birth Cohort Perinatal Files, 2000-2003.

NOTES: * Cohort files contain linked birth and death records for infants born in the same calendar year and followed-up for one year to determine as accurately as possible how many deaths occurred during the first year of life; deaths due to congenital heart and vascular defects defined by ICD-10 codes Q20-Q28.

¹ Rate per 1,000 live births; by mother's place of residence.

DSU Data Statistically Unreliable due to small number of events.